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1 [A conservative algorithm for computing the flow of permissions in Java programs](#)



Gleb Naumovich

July 2002 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 2002 ACM SIGSOFT international symposium on Software testing and analysis ISSTA '02**, Volume 27 Issue 4

Publisher: ACM Press

Full text available: [pdf\(540.08 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Open distributed systems are becoming increasingly popular. Such systems include components that may be obtained from a number of different sources. For example, Java allows run-time loading of software components residing on remote machines. One unfortunate side-effect of this openness is the possibility that "hostile" software components may compromise the security of both the program and the system on which it runs. Java offers a built-in security mechanism, using which programmers can give p ...

Keywords: data flow analysis, java, security, static analysis, verification

2 [A flexible access control mechanism for CAD frameworks](#)

A. J. van der Hoeven, Olav ten Bosch, Rene van Leuken, Pieter van der Wolf

September 1994 **Proceedings of the conference on European design automation**

Publisher: IEEE Computer Society Press

Full text available: [pdf\(704.03 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

3 [A distributed persistent object store for scalable service](#)



Chao Jin, Weimin Zheng, Feng Zhou, Yinghui Wu

October 2002 **ACM SIGOPS Operating Systems Review**, Volume 36 Issue 4

Publisher: ACM Press

Full text available: [pdf\(1.03 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

This paper presents a distributed persistent object store designed to simplify scalable service in cluster environment. This distributed object store, called TODS (Tsinghua Object Data Store), presents a single-imaged, transparent persistent and object-oriented view of the storage devices of the whole cluster. TODS is designed to be incremental scalable and efficient, and also has the properties of the high concurrency, high

throughput and availability which are necessary for scalable service. T ...

4 Policy management using access control spaces



Trent Jaeger, Xiaolan Zhang, Fidel Cacheda

August 2003 **ACM Transactions on Information and System Security (TISSEC)**, Volume 6 Issue 3

Publisher: ACM Press

Full text available: [pdf\(360.69 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

We present the concept of an *access control space* and investigate how it may be useful in managing access control policies. An access control space represents the permission assignment state of a subject or role. For example, the set of permissions explicitly assigned to a role defines its *specified* subspace, and the set of constraints precluding assignment to that role defines its *prohibited* subspace. In analyzing these subspaces, we identify two problems: (1) often a signi ...

Keywords: Access control models, authorization mechanisms, role-based access control

5 Extensible file system (ELFS): an object-oriented approach to high performance file I/O



John F. Karpovich, Andrew S. Grimshaw, James C. French

October 1994 **ACM SIGPLAN Notices , Proceedings of the ninth annual conference on Object-oriented programming systems, language, and applications OOPSLA '94**, Volume 29 Issue 10

Publisher: ACM Press

Full text available: [pdf\(1.84 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Scientific applications often manipulate very large sets of persistent data. Over the past decade, advances in disk storage device performance have consistently been outpaced by advances in the performance of the rest of the computer system. As a result, many scientific applications have become I/O-bound, i.e. their run-times are dominated by the time spent performing I/O operations. Consequently, the performance of I/O operations has become critical for high performance in these applicatio ...

6 Certification of programs for secure information flow



Dorothy E. Denning, Peter J. Denning

July 1977 **Communications of the ACM**, Volume 20 Issue 7

Publisher: ACM Press

Full text available: [pdf\(918.82 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

ertification mechanism for verifying the secure flow of information through a program. Because it exploits the properties of a lattice structure among security classes, the procedure is sufficiently simple that it can easily be included in the analysis phase of most existing compilers. Appropriate semantics are presented and proved correct. An important application is the confinement problem: The mechanism can prove that a program cannot cause supposedly nonconfidential results to depend on conf ...

Keywords: confinement, information flow, lattice, program certification, protection, security, security classes

7 Role-based access control in Java



Luigi Giuri

October 1998 **Proceedings of the third ACM workshop on Role-based access control**

Publisher: ACM Press

Full text available:  pdf(976.33 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)


8 [Access rights analysis for Java](#)



Larry Koved, Marco Pistoia, Aaron Kershenbaum

November 2002 **ACM SIGPLAN Notices , Proceedings of the 17th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '02**, Volume 37 Issue 11

Publisher: ACM Press

Full text available:  pdf(360.93 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Java 2 has a security architecture that protects systems from unauthorized access by mobile or statically configured code. The problem is in manually determining the set of security access rights required to execute a library or application. The commonly used strategy is to execute the code, note authorization failures, allocate additional access rights, and test again. This process iterates until the code successfully runs for the test cases in hand. Test cases usually do not cover all paths th ...

Keywords: Java security, access rights, call graph, data flow analysis, invocation graph, security

9 [Security analysis: Towards a formal model for security policies specification and validation in the selinux system](#)



Giorgio Zanin, Luigi Vincenzo Mancini

June 2004 **Proceedings of the ninth ACM symposium on Access control models and technologies**

Publisher: ACM Press

Full text available:  pdf(257.36 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents a formal model, called SELAC, for analyzing an arbitrary security policy configuration for the SELinux system. A security policy for SELinux is complex and large: it is made by many configuration rules that refer to the access control sub-models implemented in the system. Among the rules composing a security policy configuration, many relationships occur and it is extremely difficult to understand their overall effects in the system. Our aim is to define semantics for the con ...

Keywords: configuration, formal model, security enhanced linux

10 [Role-based access control on the Web using Java](#)



Luigi Giuri

October 1999 **Proceedings of the fourth ACM workshop on Role-based access control**

Publisher: ACM Press

Full text available:  pdf(729.08 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

11 [Developing and using a "policy neutral" access control policy](#)



Duane Olawsky, Todd Fine, Edward Schneider, Ray Spencer

September 1996 **Proceedings of the 1996 workshop on New security paradigms**

Publisher: ACM Press

Full text available:  pdf(1.07 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

12 Declarative specialization of object-oriented programs



Eugen N. Volanschi, Charles Counsel, Gilles Muller, Crispin Cowan

October 1997 **ACM SIGPLAN Notices , Proceedings of the 12th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '97**, Volume 32 Issue 10

Publisher: ACM Press

Full text available: [pdf\(2.77 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Designing and implementing generic software components is encouraged by languages such as object-oriented ones and commonly advocated in most application areas. Generic software components have many advantages among which the most important is reusability. However, it comes at a price: genericity often incurs a loss of efficiency. This paper presents an approach aimed at reconciling genericity and efficiency. To do so, we introduce declarations to the Java language to enable a programmer to speci ...

13 Kernel korner: filesystem labeling in SELinux

James Morris

October 2004 **Linux Journal**, Volume 2004 Issue 126

Publisher: Specialized Systems Consultants, Inc.

Full text available: [html\(25.75 KB\)](#) Additional Information: [full citation](#)

14 Conceptual modeling and metadata: Grid metadata catalog service-based OGC web registry service



Peisheng Zhao, Aijun Chen, Yang Liu, Liping Di, Wenli Yang, Peichuan Li

November 2004 **Proceedings of the 12th annual ACM international workshop on Geographic information systems**

Publisher: ACM Press

Full text available: [pdf\(128.43 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Grid is a promising e-Science infrastructure that promotes and facilitates the sharing and collaboration in the use of distributed heterogeneous resources through Virtual Organization (VO). A critical factor to the overall utility of Grid is a scalable, flexible and robust registry mechanism. Although it provides some mechanisms to store and access metadata for publishing and discovering resources, such as MCS (Metadata Catalog Service), the Grid registry is inadequate for dealing with domain ...

Keywords: OGC, OWL, catalog, grid, information model, ontology, semantic

15 Consistency analysis of authorization hook placement in the Linux security modules framework



Trent Jaeger, Antony Edwards, Xiaolan Zhang

May 2004 **ACM Transactions on Information and System Security (TISSEC)**, Volume 7 Issue 2

Publisher: ACM Press

Full text available: [pdf\(394.54 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present a consistency analysis approach to assist the Linux community in verifying the correctness of authorization hook placement in the Linux Security Modules (LSM) framework. The LSM framework consists of a set of authorization hooks inserted into the Linux kernel to enable additional authorizations to be performed (e.g., for mandatory access control). When compared to system call interposition, authorization within the

kernel has both security and performance advantages, but it is more di ...

Keywords: access control models, authorization mechanisms, role-based access control

16 Creating abstract superclasses by refactoring



William F. Opdyke, Ralph E. Johnson

March 1993 **Proceedings of the 1993 ACM conference on Computer science**

Publisher: ACM Press

Full text available: [pdf\(906.49 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper focuses on object-oriented programming and one kind of structure-improving transformation (refactoring) that is unique to object-oriented programming: finding abstract superclasses. We decompose the operation of finding an abstract superclass into a set of refactoring steps, and provide examples. We discuss techniques that can automate or automatically support these steps. We also consider some of the conditions that must be satisfied to perform a refactoring safely; some ...

17 Analysis and verification: Runtime verification of authorization hook placement for the linux security modules framework



Antony Edwards, Trent Jaeger, Xiaolan Zhang

November 2002 **Proceedings of the 9th ACM conference on Computer and communications security**

Publisher: ACM Press

Full text available: [pdf\(298.39 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present runtime tools to assist the Linux community in verifying the correctness of the Linux Security Modules (LSM) framework. The LSM framework consists of a set of authorization hooks inserted into the Linux kernel to enable additional authorizations to be performed (e.g., for mandatory access control). When compared to system call interposition, authorization within the kernel has both security and performance advantages, but it is more difficult to verify that placement of the LSM hooks ...

18 Technical briefing: Music in time-based hypermedia



Jacco van Osssenbruggen, Anton Eliëns

September 1994 **Proceedings of the 1994 ACM European conference on Hypermedia technology**

Publisher: ACM Press

Full text available: [pdf\(414.24 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#)

19 Lightweight extraction of object models from bytecode



Daniel Jackson, Allison Waingold

May 1999 **Proceedings of the 21st international conference on Software engineering**

Publisher: IEEE Computer Society Press

Full text available: [pdf\(990.12 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)


20 Database theory, technology and applications (DTTA): Signature file hierarchies and signature graphs: a new index method for object-oriented databases



Yangjun Chen, Yibin Chen

March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**

Publisher: ACM Press

Full text available:  [pdf\(179.07 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we propose a new index structure for object-oriented databases. The main idea of this is a graph structure, called a signature graph, which is constructed over a signature file generated for a class and improves the search of a signature file dramatically. In addition, the signature files (accordingly, the signature graphs) can be organized into a hierarchy according to the nested structure (called the aggregation hierarchy) of classes in an object-oriented database, which leads t ...

Keywords: index structure, object-oriented database, signature files, signature graphs, system

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